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Sequence Listing was accepted.

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Reviewer: Anne Corrigan

Timestamp: [year=2008; month=2; day=27; hr=15; min=31; sec=21; ms=575;]

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Application No: 10537864 Version No: 2.1

Input Set:

Output Set:

Started: 2008-02-27 15:28:49.377
Finished: 2008-02-27 15:28:51.015
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 638 ms
Total Warnings: 17
Total Errors: 0
No. of SeqIDs Defined: 17
Actual SeqID Count: 17

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SEQUENCE LISTING

<110> Mattson, Jeanine
McClanahan, Terrill

<120> Canine RANKL and Methods for Preparing and
Using the Same

<130> AH01646K

<140> 10537864
<141> 2005-06-07

<150> US60/432092
<151> 2002-12-10

<160> 17

<170> PatentIn version 3.4

<210> 1
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<212> DNA
<213> Artificial Sequence

<220>

<223> artificial sequence for canine RANK ligand

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<221> misc_feature
<222> (1)..(21)
<223> human primer sequence

<220>

<221> misc_feature
<222> (865)..(867)
<223> stop codon

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gtggccttcc tggggctggg gctgggccaag gtggcttgca gcgtcgccct gttcctctac 120
ttcagggttc agatggatcc taatagaata tcagaagatg acactcactg cattaataga 180
attttcaaac tccatgaaaa tgcagatttgc caagacacaa ctctggagaa tcaagacaca 240
aaattaatac ctgattcgtg taagagcatt aagcaggcct tccgagccgc cgtacaaaag 300
gaattacaac atattgttag atcacaacac atcagagcag aaaaagctat gatggaaggt 360
tcatggttgg aaatggccag gaggggcaag actcataactc aacctttgc tcatctact 420
atcaatgcca ctgacatccc atctggttcc cacaaagtga gtctgtcctc ctggtaccat 480

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| gaccgaggtt | gggccaagat | ctccaacatg | actttcagca | atgggaaact | aatagttAAC | 540 |
| caagatggct | tttatttcct | gtacgccaac | atttgctta | gacatcatga | aacttcagga | 600 |
| gacctcgcca | cagagtatct | tcaagctgatg | gtgtatgtca | ctaaaaccag | catcaaaatc | 660 |
| ccgagttctc | atacactgat | gaaaggaggt | agcaccaaAT | actggtcagg | gaattctgaa | 720 |
| ttccatTTT | attccataaa | cgttgagga | tttttaAGC | tacgatctgg | tgaggaaATA | 780 |
| agcatcgagg | tatccaaccc | atcactactg | gaccCAGATC | aagatgcaac | atactttggg | 840 |
| gcttttaagg | ttctagatat | agattgagtc | ccattttatg | gagtgttatt | ctgtatttcc | 900 |
| gaggatgtat | ggaaaatttt | tttaaacaag | gcaagaaAGA | tgtatataga | tgtgagacta | 960 |
| ctaaggggta | tgaccacaa | tgatacaag | | | | 989 |

<210> 2
<211> 275
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial sequence for canine RANK ligand

<400> 2

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Ser | Arg | Ser | Val | Ala | Val | Ala | Phe | Leu | Gly | Leu | Gly | Leu | Gly |
| 1 | | | | | 5 | | | 10 | | | | 15 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Val | Val | Cys | Ser | Val | Ala | Leu | Phe | Leu | Tyr | Phe | Arg | Ala | Gln | Met |
| | | | | | 20 | | | | 25 | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Pro | Asn | Arg | Ile | Ser | Glu | Asp | Asp | Thr | His | Cys | Ile | Asn | Arg | Ile |
| | | | | 35 | | | 40 | | | 45 | | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Lys | Leu | His | Glu | Asn | Ala | Asp | Leu | Gln | Asp | Thr | Thr | Leu | Glu | Asn |
| | | | | | 50 | | | 55 | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Asp | Thr | Lys | Leu | Ile | Pro | Asp | Ser | Cys | Lys | Ser | Ile | Lys | Gln | Ala |
| | | | | 65 | | | | 70 | | 75 | | 80 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Arg | Ala | Ala | Val | Gln | Lys | Glu | Leu | Gln | His | Ile | Val | Arg | Ser | Gln |
| | | | | | 85 | | | 90 | | | 95 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Ile | Arg | Ala | Glu | Lys | Ala | Met | Met | Glu | Gly | Ser | Trp | Leu | Glu | Met |
| | | | | | 100 | | | 105 | | | 110 | | | | |

Ala Arg Arg Gly Lys Thr His Thr Gln Pro Phe Ala His Leu Thr Ile
115 120 125

Asn Ala Thr Asp Ile Pro Ser Gly Ser His Lys Val Ser Leu Ser Ser
130 135 140

Trp Tyr His Asp Arg Gly Trp Ala Lys Ile Ser Asn Met Thr Phe Ser
145 150 155 160

Asn Gly Lys Leu Ile Val Asn Gln Asp Gly Phe Tyr Phe Leu Tyr Ala
165 170 175

Asn Ile Cys Phe Arg His His Glu Thr Ser Gly Asp Leu Ala Thr Glu
180 185 190

Tyr Leu Gln Leu Met Val Tyr Val Thr Lys Thr Ser Ile Lys Ile Pro
195 200 205

Ser Ser His Thr Leu Met Lys Gly Gly Ser Thr Lys Tyr Trp Ser Gly
210 215 220

Asn Ser Glu Phe His Phe Tyr Ser Ile Asn Val Gly Gly Phe Phe Lys
225 230 235 240

Leu Arg Ser Gly Glu Glu Ile Ser Ile Glu Val Ser Asn Pro Ser Leu
245 250 255

Leu Asp Pro Asp Gln Asp Ala Thr Tyr Phe Gly Ala Phe Lys Val Leu
260 265 270

Asp Ile Asp
275

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<220>
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<210> 4

<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RANKL human/AS2 primer

<400> 4
ggtgtgtgag actactaaga g 21

<210> 5
<211> 21
<212> DNA
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<220>
<223> RANKL human/S6 primer

<400> 5
ccatgcgccc cgccagcaga g 21

<210> 6
<211> 20
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<223> RANKL human/AS4 primer

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<400> 7
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<210> 8
<211> 24
<212> DNA
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<220>
<223> RANKL dog/AS1 primer

<400> 8
gccactgaca tcccatctgg ttcc 24

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<210> 10
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<220>
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<400> 10
ctatgatgga aggttcatgg ttgg 24

<210> 11
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<223> Sp6 primer

<400> 11
attaggtga cactatag 18

<210> 12
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<220>
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<400> 12
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<223> pSPORT1 primer

<400> 13
gtacgtaagc ttggatcctc 20

<210> 14
<211> 23
<212> DNA
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<223> RANKL dog/AS4 primer

<400> 14
cttgtatcat tgtgggtcat acc 23

<210> 15
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<220>
<223> RANKL dog/AS3 primer

<400> 15
ccagattaga gcaattatgg ttgc 24

<210> 16
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<220>
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<400> 16
Asp Tyr Lys Asp Asp Asp Asp
1 5

<210> 17
<211> 9
<212> PRT
<213> Artificial

<220>
<223> proteolytic cleavage site

<400> 17
Pro Arg Pro Pro Thr Pro Gly Asn Leu
1 5

